PAT-NO: JP361245835A

DOCUMENT-IDENTIFIER: JP 61245835 A

TITLE: METHOD FOR IMPROVED DISSOLUTION OF WATER IN OIL TYPE EMULSION

PUBN-DATE: November 1, 1986

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APPL-DATE: March 22, 1985

INT-CL (IPC): B01J013/00

US-CL-CURRENT: 524/112

ABSTRACT:

PURPOSE: To stably dissolve an emulsion in water without receiving the effect of the temp. of dissolving water, by adding a nonionic surfactant having a specific cloud point to a water in oil type emulsion used in a waste water treating agent or a papermaking chemical agent.

CONSTITUTION: 0.5∼10.0wt% of a nonionic surfactant (pref., a

polyethylene glycol type one) having a cloud point of 15∼60°C is added to a water in oil type emulsion of a water soluble polymer. Thus obtained emulsion is not affected by the temp. of dissolving water changing seasonally and dissolved in water easily and uniformly without generating white turbidity and sufficiently develops capacity. The surfactant may be added at the time of the preparation of the emulsion or at the time of the use thereof.

DERWENT-ACC-NO: 1986-329263

DERWENT-WEEK: 198650

TITLE: Dissolving water-in-oil emulsion coagulant in water - using nonionic surfactant having 1 or more cloud points between 15-60 degrees 0

PATENT-ASSIGNEE: MITSUI CYANAMID KK[AMCY]

PRIORITY-DATA: 1985JP-0056112 (March 22, 1985)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 61245835 A	November 1, 1986	N/A	003	N/A

APPLICATION-DATA:

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ABSTRACTED-PUB-NO: JP 61245835A

BASIC-ABSTRACT:

A water-in-oil emulsion (I) of a water-soluble polymer is dissolved in water using nonionic surfactant (II) which has one or more cloud points between 15 and 60 deg.C.

(I), is, e.g., composed of 30-60 wt.% water-soluble polymer consisting of 40 mol.% or more of cationic monomer and another monomer, 0.05-0.15 wt.% anhydrous maleic acid surfactant of formula (III) and 0.1-0.40 wt.%

linear
polyester-polyalkylene oxide-polyester block copolymer surfactant of alkylene
oxide content less than 40 wt.%.

x is larger than 5; molar ratio of a/b is 3/1-1/1; R1, R2, R3 and R4 are H,
1-48C alkyl, 1-48C alkoxy, 2-48C alkenyl, 6-12C allyl or 7-12C alkallyl; and
one or more of R1, R2, R3 and R4 is 4-48C alkyl. (II) is polyethylene glycol.

USE/ADVANTAGE - Method is used for dissolution of (I) which is used as a
coagulant for treating waste water or mfg. paper.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: DISSOLVE WATER OIL EMULSION COAGULATE WATER NONIONIC SURFACTANT
MORE CLOUD POINT DEGREE

DERWENT-CLASS: A14 A23 A97 D15 F09

CPI-CODES: A08-S; A12-S; A12-W06; A12-W11E; A12-W11J; D04-A01B; F05-A02C;
F05-A06C;

POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:
Key Serials: 0005 0013 0038 0218 0229 0231 0278 0292 0306 0313 0320 0355 0362
0880 1207 1214 1235 1279 1291 1417 1581 1583 1587 1588 1847 1999 2014 3246 2575
2710
Multipunch Codes: 014 028 03- 034 035 038 04- 040 041 046 053 054 055 056 057
058 059 060 091 093 104 105 106 13& 134 135 137 143 144 147 155 157 175 195 198
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